



Steve Adams
Product Manager

BINMASTER
THE LEVEL CONTROL EXPERTS®

Division of Garner Industries
4200 North 48th St. / Lincoln, NE 68504-1498
(402) 434-9102 / FAX (402) 434-9133

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Friday, March 08, 1996

Mr. Frank Costanzo
JP Domcyer
PO Box 74
Ono, PA 17077

Dear Frank:

It was a pleasure visiting with you yesterday and discussing your unique application. As requested, I have included a partial users list of the Smart Bob System. Once again, these are being operated from same location, however, the only difference would be utilizing a computer modem for separate locations.

Also, as promised I have enclosed four tickets to the upcoming Powder and Bulk Solids Show in Chicago. This show is streamlined for the dry processing industry highlighting every form of equipment available for improved processing.

I look forward to discussing your application further with possible demonstration once your buying intention is nearer. Should you have additional questions, please contact me at 800-278-4241. Thank you for your interest.

Sincerely,

A handwritten signature in cursive ink that appears to read "Steve Adams".

Steve Adams
Product Manager



Directory

Steve Adams
BinMaster Level Controls
4200 North 48th Street
Lincoln, Nebraska 68504

Page: 1
Report Date: 3/8/96
Time: 9:06AM
Number of Contacts: 7

Primary

Secondary

Associated Feeds & Supply
Jon Lundskoog

Ext: CC:1

Fax:
5213 W. Main

Turlock
CA
95381

Calva Products
Phil Williams

Ext: CC:1

Fax:
4351 Wiwery Road

Acampo
CA
95220

General Mills
Bob Calton

Ext: CC:1

Fax:

Griffin Industries
Rob Warren

Ext: CC:1

Fax:
County Road 400 West

Newbury
IN
47449



Directory

Steve Adams
BinMaster Level Controls
4200 North 48th Street
Lincoln, Nebraska 68504

Page: 2
Report Date: 3/8/96
Time: 9:06AM
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Primary

Secondary

Hartz Mountain Corp.
Rob Post
Ext: CC:1
Fax:
192 Bloomfield Ave.

Bloomfield
NJ
07003

KAO Infosystems, Inc.
Gary Brune
508-747-5520
Ext: CC:1
Fax: 508-747-5521
40 Grissom Rd.

Plymouth
MA
02360

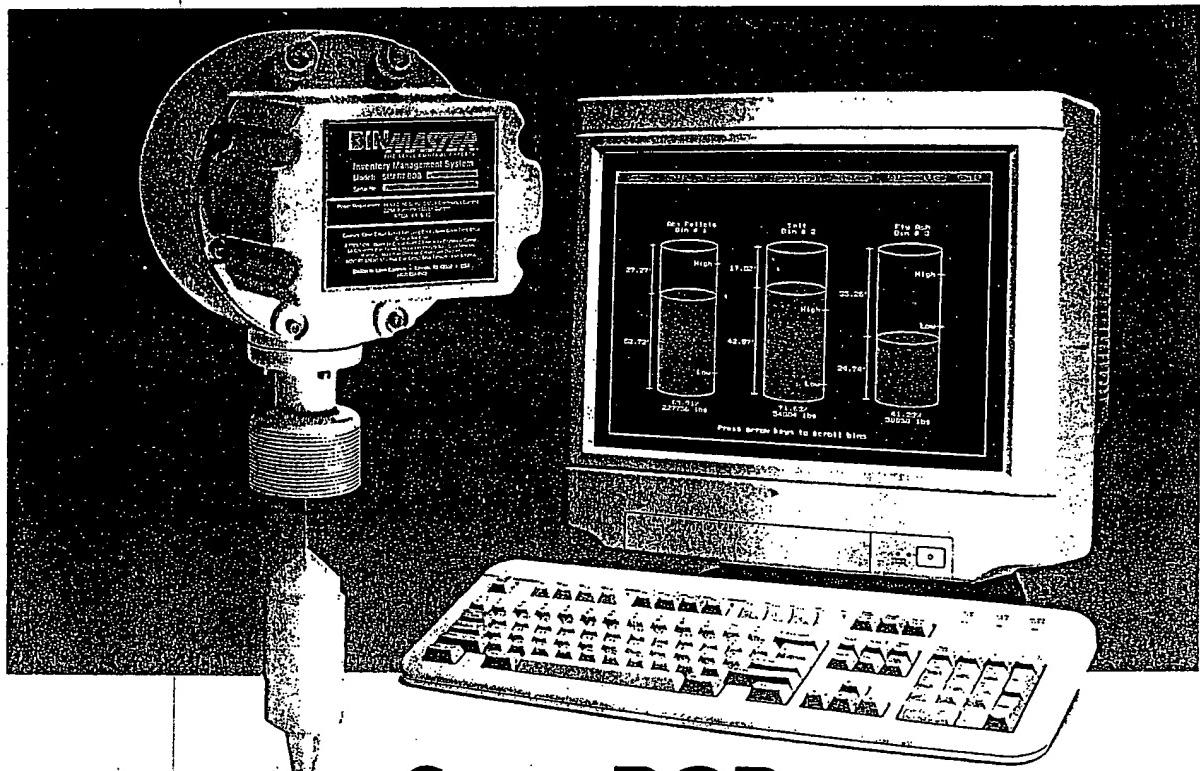
Tri-Seal International, Inc.
Brannin Russell
914-353-3300
Ext: CC:1
Fax: 914-353-3376
217 Bradley Hill Rd.

Blaauwerv
NY
10913



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THE LEVEL CONTROL EXPERTS



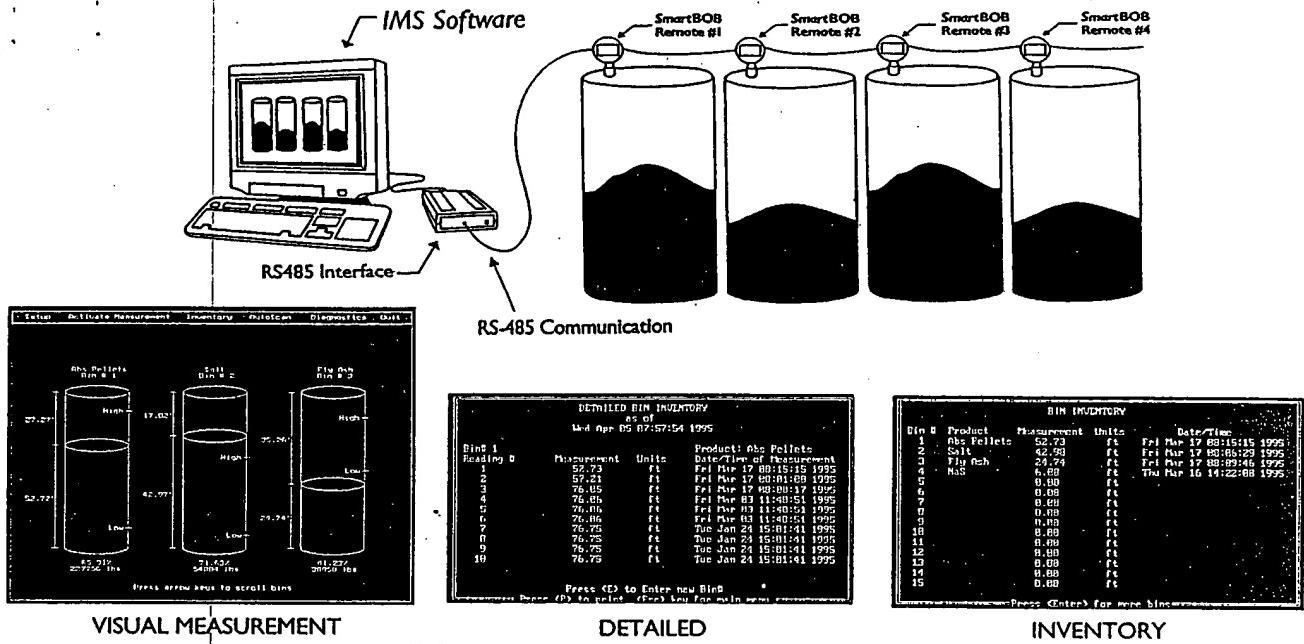
SmartBOB INVENTORY MANAGEMENT SYSTEM

NEW DESIGN PRODUCES ADVANCED, AFFORDABLE LEVEL CONTROL

SmartBob IMS is an on-demand level measurement system for solids and liquids. Using microprocessor based Remote Sensing Units and specially designed PC compatible software, BinMaster is the first to design an affordable inventory management system with sophisticated measurement capabilities.

REMOTE SENSING UNIT – FAST, ACCURATE AND RELIABLE

SmartBob Remote measures material with a high-speed weighted probe that travels at 2.5 feet per second. It provides accurate mechanical measurement to the nearest one-tenth of a foot. The SmartBob Remote may be used to measure a variety of materials - chemicals, plastics, cement, coal, pulp, grain - in open or closed vessels up to 150 feet. It's specially designed for reliable operation in humid, dusty and extreme temperature applications. The rugged industrial enclosure meets Class I and Class II specifications (approvals pending).



IMS SOFTWARE PROVIDES INVENTORY MANAGEMENT CAPABILITIES

SmartBob IMS Software runs on an IBM compatible PC and controls up to 30 Remote Sensing Units from one location. The system uses a RS-485 network which requires less wiring and simplifies installation. With user friendly "pull-down" menus, the software provides a graphic representation of material measurements by distances, weight and percentage in English and in metric units. It also provides inventory history, measurement scheduling and high/low alarms. Plus it can interface with a printer to provide hard copy documents of each function.

SmartBOB SPECIFICATIONS

Power Requirements:	.....16VAC 50/60Hz
Power Consumption:	.....2VA Continuous 36VA Intermittent
Current Draw:	.....0.125A Continuous 2.25A Intermittent
Operating Temperature:	.....32°F to 185°F (0° to 85°C)
Operating Temperature with Heater:	.....-40°F to +185°F (-40°C to +85°C)
Pressure:	.....Atmospheric
Measurement Range:	.....60 ft Standard 150 ft maximum
Measurement Rate:	.....2.5 ft/sec (typical)
Measurement Accuracy:	.....0.1 ft (0.03m)
Repeatability:	.....0.1 ft (0.03m)
Resolution:	.....0.15 inch (0.4cm)
Communication:	.....RS-485 Half Duplex
Wiring Distance:	.....4000 ft (1220m)
Enclosure:	.....Type 4X, 5, 7, 9, 12 Explosion Proof Class I Group C & D Class II Group E, F, & G (approvals pending)

Mounting:	.....8 NPT floor flange
Conduit Entry:	.....3/4" NPT
Weight:	.....2.5 lbs.
Diameter:	.....9"
Height:	.....14"
Depth:	.....9 1/2"
Air Purge Entry:	.....1/4"-18 NPT
Cable:	.....316 Stainless Steel 0.037" diameter Nylon Coated
Warranty:	.....One Year

OPTIONS

Heater:	.....25W 40°F
Probes:	.....Spiked, Float, or Bottle
Transformer:120VAC/16VAC, 150VA 120VAC/16VAC, 250VA
Interface Cable:RS-485 Communication Cable Belden #8102

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THE LEVEL CONTROL EXPERTS®



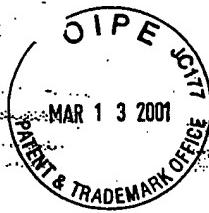
*For more than thirty years,
Garner Industries has manu-
factured the BinMaster
product line of level controls.*

Today our commitment continues to provide our customers with the finest products and the best service possible.

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on BinMaster level control
products, and the name of
your local distributor, call
1-800-278-4241.*

BINMASTER

THE LEVEL CONTROL EXPERTS



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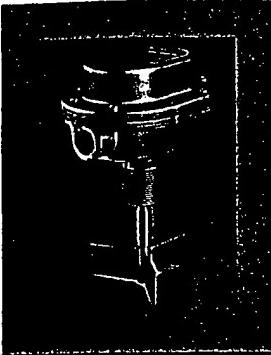
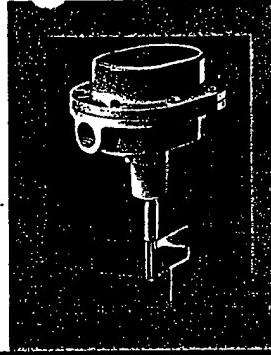
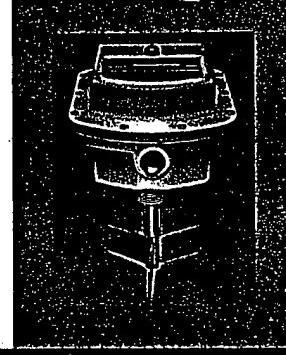
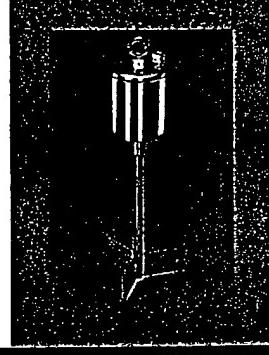
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THE LEVEL CONTROL EXPERTS
Division of Garner Industries

4200 N 48TH STREET

BINMASTER
THE LEVEL CONTROL EXPERTS

Division of Garner Industries
4200 N 48TH Street
Lincoln NE 68504-9940

**GR, GRE, GRX****GRD, GRDX****GRII MAXIMA****TILT SWITCH****APPLICATIONS**

Reliable point level detection for bulk solids including powder, pellet and granular materials
Use in bins, vessels, chutes and conveyors
Material density from 5 lbs./cu.ft. to over 100 lbs./cu.ft.
Feed, seed, grain, food, sand, gravel, concrete, aggregate, plastic, chemical, coal, and other materials

Reliable point level detection for bulk solids including powder, pellet and granular materials
Use in bins, vessels, chutes and conveyors
Material density from 5 lbs./cu.ft. to over 100 lbs./cu.ft.
Feed, seed, grain, food, sand, gravel, concrete, aggregate, plastic, chemical, coal, and other materials

Reliable point level detection for bulk solids including powder, pellet and granular materials
Use in bins, vessels, chutes and conveyors
Material density from 5 lbs./cu.ft. to over 100 lbs./cu.ft.
Feed, seed, grain, food, sand, gravel, concrete, aggregate, plastic, chemical, coal, and other materials

Reliable high level detection for dense bulk solids
Use in bins, vessels, chutes, silos or over conveyors and open pits where conventional level devises can not be mounted
Material density of 15 lbs./cu. ft. and greater
Grain, sand, gravel, concrete, aggregate, coal, and other materials

FEATURES

Rugged construction and simple, dependable design
De-energizing motor for extended operation life
Three bearing drive shaft assembly reduces wear and increases reliability
Various voltages available
Explosion proof model
Terminal strip for quick easy installation
Interchangeable with other rotary units

Fail-Safe circuitry eliminates spills and process shortages from power failures
Rugged construction and simple, dependable design
De-energizing motor for extended operation life
Three bearing drive shaft assembly reduces wear and increases reliability
Multiple voltages
Explosion proof model
Interchangeable with other rotary units

Fail-Safe circuitry eliminates spills and process shortages from power failures, motor or gear failures
Visual LED indicates sensor status: uncovered, covered and fault conditions
Normal and fault status contact
De-energizing motor for extended operation life
Three bearing drive shaft assembly reduces wear and increases reliability
Multiple voltages
Interchangeable with other rotary units

Economical high level point detection
Rugged construction and easy installation
Simple design with one moving part
Switch activated at 15 degrees
Stainless steel paddle options available

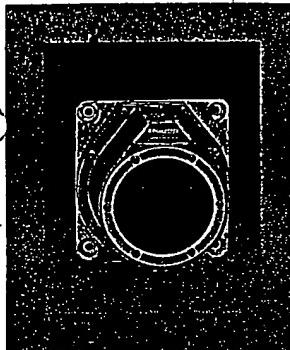
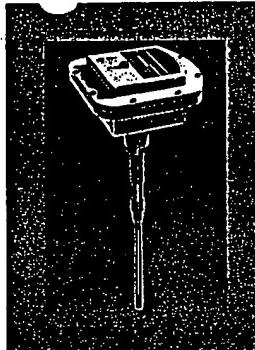
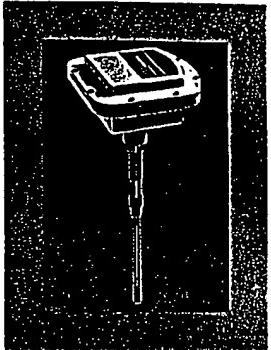
SPECIFICATIONS

Power Requirements: 120/240 VAC
Output Contacts: SPDT 15 Amp 120 VAC
Ambient Operating Temperature: -40°F to +300°F, (-40°C to +149°C)
Pressure: 1/2 micron, 30 PSI
Approvals & Certifications (available): listed for Class I, Groups C & D and Class II Groups E, F & G Hazardous Locations. Enclosure Type 4, 5, 7, 9 & 12
Enclosure: Die cast aluminum
Mounting: 1 1/4" NPT
Shaft and components: 316 SS

Power Requirements: 120/240 VAC; 24/12 VDC
Output Relay: DPDT 10 Amp 250 VAC
Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)
Pressure: 1/2 Micron, 30 PSI
Approvals & Certifications (available): listed for Class I, Groups C & D and Class II Groups E, F, & G Hazardous Locations. Enclosure Type 4X, 5, 7, 9 & 12
Enclosure: Die cast aluminum, USDA Approved powder coat finish
Mounting: 1 1/4" NPT
Shaft and components: 316 SS

Power Requirements: 24/120/240 VAC
Output Relay: DPDT 10 Amp 250 VAC; SPDT supervisory 10 Amp 250 VAC normal, fault
Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)
Pressure: 1/2 Micron, 30 PSI
Approvals & Certifications (available): listed for Class II, Groups E, F, & G Hazardous Locations. Enclosure Type 4X, 5, 9 & 12
Enclosure: Die cast aluminum, USDA Approved powder coat finish
Mounting: 1 1/4" NPT
Shaft and components: 316 SS

Switch Ratings: 15 Amps @250, 250 or 480 VAC, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 1/2 A @ 125 VDC, 1/4 A @ 250 VDC
Operating Temperature: -40°F to +300°F, (-40°C to +149°C)
Housing: Die cast aluminum
Mounting: Suspended by flexible hanger

**BM-45, BM-65****PRO I****PRO X****PRO II**

Reliable point level detection for free flowing dry materials

Use in bins, vessels, and some plugged chute applications

Material density from 20 lbs./cu. ft. to 60 lbs./cu. ft.

Feed, seed, grain, food, rubber, plastics, light powders, granules and other materials

Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyors

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials

Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyors where explosion rated sensor is necessary

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials

Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyors where flush mount sensor is necessary

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials

Rugged construction and simple design, very economical point level detection

Neoprene or silicone diaphragm material, variable sensitivity

Internal or external mount

Multiple voltages

Explosion proof

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Safe, switch selectable high/low

Adjustable time delay to 10 seconds

Optional sensing probes: coated, food grade, flush mount, solid and flexible extension

Visual LED indicates sensor status: uncovered, covered, and power failure

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Safe, switch selectable high/low

Adjustable time delay to 10 seconds

Optional sensing probes: coated, flush mount flexible extension

Internal LED indicates material in contact with probe

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Safe, switch selectable high/low

Adjustable time delay to 10 seconds

Optional sensing probes: coated, food grade, flush mount, solid and flexible extension

Internal LED indicates material in contact with probe

Switch Ratings: 15 Amps @125, 250 or 480 VAC, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 1/2 A @ 125 VDC, 1/4 A @ 250 VDC

Operating Temperature: -40°F to +300°F, (-40°C to +149°C)

Approvals & Certifications (available): listed for Class II, Groups E, F, & G

Housing Enclosure: Die cast aluminum

Mounting: Internal or External, 16 ga. galvanized mounting plate

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available): Enclosure Type 4X, 5, 7, 9 & 12

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available): Enclosure Type 4X, 5, 7, 9 & 12; Explosion Proof for Class I Group C & D; Class II E, F, & G

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available): Enclosure Type 4X, 5, 7, 9 & 12

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

PRO REMOTE

SOLID STATE

AIR FRAUDS

Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyors with high temperature/high vibration conditions; electronics may be located up to 75' from sensing probe

Material density over 10 lbs./cu. ft.
Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, lead/grain and many more materials

Continuous "on-demand" level measurement for solid, liquid and slurry materials. Operates using electro-mechanically controlled sensing probe

Indoor and outdoor applications in bins, vessels, and tanks measuring up to 150' Material density over 5 lbs./cu. ft., not affected by dust or vapor

Plastics, chemicals, coal/concrete, food ingredients, pharmaceuticals, feed/grain, aggregates and many more materials

Continuous "on-demand" level measurement and inventory Management System (IMS) for solid, liquid and slurry materials. Microprocessor based, electro-mechanical level measurement device

IBM compatible, PC based IMS software controls up to 30 remote sensing units and provides graphical display of material measurements and inventory history by distance, weight, and percentage, in English and metric units. Wiring distance up to 4,000 ft.

Plastics, chemicals, coal, concrete, food ingredients, pharmaceuticals, feed/grain, aggregates and many more materials

Eliminate packing and maintain flowability of finely-ground dry bulk materials

Indoor and outdoor applications in bins, vessels, and storage vessels

Use in high temperature, corrosive applications
Flour, seeds, grain, flakes, sawdust, cement, PVC resin, fly ash, carbon black, lime, sand, cornstarch, gypsum, sugar and other materials

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Safe, switch selectable high/low Adjustable time delay to 10 seconds

Optional sensing probes: coated, flush mount.

Internal LED indicates material in contact with probe
Remote Probe status contacts

Fast, accurate measurement without calibration

Simple operation with advanced digital circuitry

Rugged mechanical construction; optional sensing probes

Console option, monitor up to 12 remote sensors, programmable bin height, LED readout

PLC interface option for direct operation of remote sensors without console

Special design provides two action flow aid through aeration and vibration

Requires fewer pads than diffuser type because of unique design

Uses high or low pressure

Not affected by moisture or temperature

Self-cleaning

Simple to install in any type vessel
Suitable for abrasive material

Power Requirements: 120 VAC, 50/60 Hz
50/60 Hz ±15%

Output Relay: DPDT 10 Amp at 250 VAC
Status Contacts: 3 Amps 240 VAC

Ambient Operating Temperature:
Electronics, -40°F to +165°F, -40°C to +85°C, Optional heater for below -30°F

Measurement Range: 150'
Measurement Rate: 1' per second
Resolution: .1 ft.

Pressure: 500 PSI
Approvals & Certifications (available):
Intrinsically safe, Enclosure Type IX, 5, 8 & 12

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish
Mounting: 1 1/4" NPT Standard;
3/4" NPT 316 SS Optional

Power Requirements: 16 VAC 50/60 Hz
Ambient Operating Temperature:
Electronics, -40°F to +165°F, -40°C to +85°C

Measurement Range: 150'
Measurement Rate: 2.5' per second
Accuracy: 0.25%

Durable molded silicone rubber construction
Stainless Steel Center Shaft
Rated to 250°F (121°C)

Air pressure from 5 PSIG to 60 PSIG
Food grade material available

Mounting: 3" - 8 NPT
Enclosure: Die cast aluminum
Mounting: 3" NPT stand pipe and aluminum flange

Approvals & Certifications (available):
Enclosure Type 4X, 5, 7, 9, 12, Explosion Proof Class I Group C & D, Class II Group E, F, & G

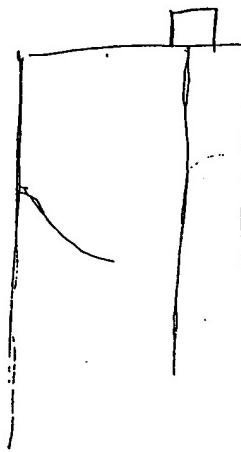
Order Information

To place an order or for technical assistance, please call
**1-402-434-9102 Or 1-800-278-4241
Or FAX
1-402-434-9133**

BinMaster products are sold worldwide through our stocking distributor network. Call us today for the name of your BinMaster distributor.

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THE LEVEL CONTROL EXPERTS.
Division of Garner Industries
4200 N 48TH STREET
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12



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THE LEVEL CONTROL EXPERTS

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